24 0 00000000

$$1 \quad \text{1} \quad \text{1} \quad \text{2} \quad f(x) = x^3 + 2x + \frac{1}{4} \quad g(x) = -\ln x$$

 $0100 \stackrel{a}{=} 00000 \stackrel{X}{=} 0000 \stackrel{Y=f(X)}{=} 0000$

$$300 \min\{m_0 n\}_{00} m_0 n_{00000000} h(x) = \min\{f(x)_0 g(x)\}(x>0) \\ 000 h(x>0) = \min\{f($$

$$2 = \frac{f(x)}{2} = x^2 + ax + \frac{1}{4} g(x) = -\ln x$$

010000 $\mathcal{A}^{f(x)}$ 00000 R0000 a000000

 $20000 \, f\!\!\!/ \, f(x)]_0 \, (1, +\infty) \, 000000000 \, a^2 \, 000000$

 $300000 f(x) = x^2 - 3ax + \epsilon_0 g(x) = 1 - lnx_{000} \epsilon_{000000000}$

0100000 ^{f(x)}00000

 $200 \max\{m_0 n\}_{00} m_0 n_{00000000} h(x) = \max\{f(x)_0 g(x)\}_0 (x>0) \\ 0000 h(x)_0 (0, +\infty) \\ 0000 2 0000000 a$

400000
$$f(x) = \ln x - x^2 + ax_0 g(x) = e^x - e_{000} a > 0_0$$

lnx, x- 1₀

$$\lim_{x \to a} a = 2$$

 $= \min_{x \in \mathcal{M}_{0}} \min_{x \in \mathcal{M}_{0}} \max_{x \in \mathcal{M}_{0}} \max$

$$f(x) = (x-4)e^{x-3} - \frac{1}{2}x^2 + 3x - \frac{7}{2} g(x) = ae^x + \cos x = ae = R_0$$

f(x) 0000000000 f(x) > 00000

$$200 a = 10000 X > 000 G(X) > 20$$

$$600000 f(x) = x^2 - x - x + x = x = x = x^2 - 3ax + e_0$$

$$200 \stackrel{\textit{Mex}\{m_0,n\}}{=} \stackrel{\textit{M}}{=} \stackrel{\textit{M}}= \stackrel{\textit{M}}{=} \stackrel{\textit{M}}{=} \stackrel{\textit{M}}{=} \stackrel{\textit{M}}{=} \stackrel{\textit{M}}= \stackrel{\textit{M}}{=} \stackrel{\textit{M}}= \stackrel{\textit{M}$$

$000\ 2\ 0000000\ ^{2}000000$

$$f(x) = \frac{2}{3}x^{2} - 2x^{2} + \frac{4}{3}g(x) = e^{x} - ax(x \in R)$$

 $0100 \ f(x) \ 000^{[a-5} \ 0^{a-1]} \ 000000 \ \frac{4}{3} \ 0000 \ a^{a} \ 000000$

$$D(x) = \frac{3}{2} f(x) - x + 1 \qquad F(x) = \begin{cases} h(x), h(x), g(x) \\ g(x), h(x) > g(x) \\ 0 \qquad X_1 \quad X_2 \quad \cdots \quad X_n \quad F(x) \\ 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \end{cases}$$

$$f(x) = -x^2 + \frac{1}{2}x^2 + mx$$

0100 M = 20000 f(x) 00000

$$900000 f(x) = alnx + x - 1_0 g(x) = x^3 - 1_0$$

$$010000^{I: y=-X+1}000^{y=f(x)}000000^{a}000$$

$$200 \, min\{m_0 \, m\}_{000} \, m_0 \, m_{000000000} \, h(x) = min\{f(x)_0 \, g(x)\}(x>0) \, 000 \, h(x) \, 0000000 \, m_0 \,$$

$$1000000 f(x) = h(x-1)_{0} g(x) = \frac{2a}{3}x^{2} + 3(1-a)x^{2} - 18x + 11a + 26(a < 0)_{0}$$

$$0100000 g(x) 00000$$

$$200 \, a < 0 \, a = 0$$

$$f(x) = (x-2)e^{x-1} - \frac{1}{2}x^2 + x + \frac{1}{2} \log(x) = ax^2 - x + 4a\cos x + \ln(x+1) \cos a \in R_0$$

$$f(x) = (x-2)e^{x-1} - \frac{1}{2}x^2 + x + \frac{1}{2} \log(x) = ax^2 - x + 4a\cos x + \ln(x+1) \log a \in R_{\square}$$

0100000 f(x) 0000000000 f(x) > 00000

$$200 \, ^{\textit{NEX}\{m_0 \, ^{\textit{N}}\}} \, 00 \, ^{\textit{M}_0} \, ^{\textit{N}_{000000}} \, ^{\textit{F(x)}} = \, ^{\textit{NEX}\{f(x)} \, _{0} \, ^{\textit{G(x)}}\} \, _{000000} \, ^{\textit{F(x)}} \, _{000000}$$

14_____
$$f(x) = e^x - 2ax - a_0 g(x) = hnx_0$$

01000 ^{f(x)}00000

$$200 \, ^{max\{m_0 \, n\}_{00} \, m_0 \, m_0 \, m_0} \, m_0 \,$$

15______
$$f(x) = 4\ln x + \frac{2x+1}{x^2} + a - 3, g(x) = 4\ln x$$

$$\max_{\mathbf{x}} |mn| = \begin{cases} mm.n \\ n,m < n \\ 0 & \text{odd} \end{cases} h(x) = \max\{f(x) \mid g(x)\}(x > 0) \\ 0 & \text{odd} \end{cases} h(x)$$



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